

Read the Safety Instructions before using your eyewear!

Welcome to the world of big screen viewing! Your Vuzix™ iWear® AV230 XL Video Eyewear delivers extraordinary high quality video in your own personal, portable movie theater!

Package Contents:



1. Video Eyewear
2. Carry Pouch / Lens Cleaner
3. Head Strap
4. Composite AV Cable for iPod®
5. Composite Audio/Video Cable

6. Battery / Controls Box
 7. Foam Earphone Covers
- Alternate Nose Bridge (not shown)
 - User's Manual (not shown)

Important Safety Instructions

Follow these safety instructions when using or handling your VUZIX Video Eyewear to reduce the risk of fire, electric shock, and injury to persons and property.

1. READ ALL OF THE INSTRUCTIONS AND SAFETY INFORMATION PROVIDED BEFORE USING THIS PRODUCT.

2. Use the product only for its intended use, as described in this manual.

3. Close supervision is needed when this product is used by or near children.

4. Children under the age of seven (7) are still learning to focus and track with their eyes. Their vision is still immature. For these reasons, THIS PRODUCT SHOULD NOT BE USED BY CHILDREN UNDER THE AGE OF SEVEN (7).

5. A very small portion of the population may experience epileptic seizures when viewing certain kinds of flashing lights or patterns that are commonly present in our daily environment. These persons may also experience seizures while watching some kinds of television pictures or playing certain video games on regular monitors, including the use of a display system such as this. These effects can be increased due to the large size of the video screens in this device. As a result consult a physician if you have any epileptic condition before using this device or if you experience any of the following symptoms while using this device: altered vision, muscle twitching, other involuntary movements, loss of awareness of your surroundings, mental confusion, and/or convulsions.

6. Immersive video, whether viewed on a regular TV, a movie theater screen or a VUZIX video display, can potentially have adverse effects on the user, including: motion sickness, perceptual after effects, disorientation, decreased postural stability, and eye strain. Take frequent breaks to lessen the potential of these effects, as is commonly suggested for other items, such as keyboards and computer monitors, that you may tend to fixate or concentrate on. If your eyes show signs of fatigue or dryness or if any of the above symptoms are noted, immediately discontinue use of this device and do not resume using it for at least 30 minutes after the symptoms have fully subsided.

7. Permanent or temporary hearing loss or impairment can result from excessive volume levels emitted from the headphones. Always adjust the volume to a safe level BEFORE wearing the product or headphones.

8. Always be aware of the world around you. This product will immerse you in realistic sights and sounds, possibly causing you to forget about the real world around you and the threats to your well being and the well being of others. DO NOT use this product near stairs, balconies, or other things that can be tripped over, run into, knocked down or fallen over. This product should only be used while you are seated and never while using sharp or potentially dangerous objects, operating any form of mechanical device, driving motor vehicles, or performing any act that normally requires you to see and/or be aware of your surroundings.

9. This product may be tethered to a power outlet and cables may extend between components. Be careful that these cords do not tangle around you or pose a potential threat to the safety of others.

10. Do not disassemble this product. If service work is required, contact VUZIX using the Support contact information shown in this manual.

11. Do not pull or yank on the cable, kink any of the cables or tie them in sharp or tight knots. Do not hang the product or allow it to be suspended by any of its cables. To disconnect cables, pull on the cable connector. Cables damaged by such actions are not covered by the product's limited warranty.

12. Do not drop, strike, or cause any portion of the product to be struck or shaken aggressively. Such actions may damage the product and void your warranty.

13. Save these instructions for future reference.

Immediately unplug the product from external power sources if:

- Liquid has been sprayed, splashed or poured on the product.
- Any component of the product has been dropped or damaged.
- The product exhibits any distinct change in performance.

Battery Safety Instructions

- Batteries contain toxic materials. Do not burn, disassemble, mutilate, or puncture the batteries.
- Do not dispose of batteries in a fire.
- Dispose of batteries in a method that is consistent with your local laws and regulations.

Vuzix Hardware Product Limited Warranty

Vuzix warrants that your Vuzix hardware product shall be free from defects in material and workmanship for the length of time specified in the Warranty Period (one year), beginning from the date of purchase. If your Vuzix hardware product is used for commercial purposes (including rental or lease) the Warranty Period shall be reduced to only ninety (90) days from date of purchase. Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser and does not apply to anyone else, including anyone to whom You later make any transfer or sale. This warranty gives you specific legal rights, and you may also have other rights that vary under local laws, some of which are not affected by the warranties in this Limited Warranty.

This Limited Warranty does not cover, and no warranty of any kind is provided with respect to any subjective or aesthetic aspects of the hardware product. Vuzix does not warrant that the operation of the product will be uninterrupted or error-free. The limited warranty stated above is the only warranty made to You and is provided in lieu of all other express or implied warranties and conditions (except for any non-disclaimable implied warranties that exist), including any created by any other documentation or packaging. No information or suggestions (oral or in a record) given by Vuzix, its agents, affiliates, dealers or suppliers or its or their employees or agents, shall create a warranty or condition or expand the scope of this Limited Warranty.

Any software distributed with the hardware product by Vuzix with or without the Vuzix brand name is not covered under this Limited Warranty. Refer to the licensing agreement accompanying the software (viewable upon its installation), for details of your rights with respect to its use.

Remedies

Vuzix's entire liability and Your exclusive remedy for any breach of warranty shall be, at Vuzix's option, (1) to repair or replace all or part of the hardware, 2) exchange the hardware with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) to refund the price paid by You less reasonable depreciation based on your actual use, provided that the hardware is returned to the point of purchase or such other place as Vuzix may direct with a copy of the sales receipt or dated itemized receipt. Except where prohibited by applicable law, all shipping and handling costs associated with transport (including packaging) for warranty service shall be at Your expense. Vuzix may, at its option, use new or refurbished or used parts in good working condition to repair or replace any hardware product. Any replacement hardware product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer or for any additional period of time that may be applicable in Your jurisdiction. This warranty does not cover problems or damage resulting from (1) Acts of God, power surge, misuse, abuse, negligence, accident, wear and tear, mishandling, misapplication, or other causes unrelated to defects in the hardware device (2) any unauthorized repair, modification, tampering or disassembly;

(3) improper operation or maintenance, usage not in accordance with product instructions or connection to improper voltage supply; or (3) use of consumables, such as replacement batteries, not supplied by Vuzix except where such restriction is prohibited by applicable law.

How to Obtain Technical Support

Technical support is defined as assistance with questions on issues about the Vuzix hardware product. Technical support for hardware and its software is available for the first ninety (90) days from date of product purchase. Your dated sales or delivery receipt, showing the date of purchase or lease of the product, is Your proof of the purchase or lease date. You may be required to provide proof of purchase or lease as a condition of receiving software technical support. The addresses and technical service contact information for Vuzix can be found in the documentation accompanying your product and on the web at our global site: www.vuzix.com.

How to Obtain Warranty Support

Vuzix is the warrantor under this Limited Warranty. Before submitting a warranty claim, we recommend You visit the support section at www.Vuzix.com for technical assistance. Warranty claims cannot be processed through the point of purchase and any other product related questions should be addressed directly to Vuzix. The addresses and customer service contact information for Vuzix can be found in the documentation accompanying Your product and on the web at our global site at www.vuzix.com, which will also identify any Vuzix subsidiary or branch serving Your country and its local address. You may also write to: Vuzix Sales Support, 75 Town Centre Drive, Rochester, NY 14623, USA.

Limitation of Liability

VUZIX SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, REVENUE OR DATA (WHETHER DIRECT OR INDIRECT) OR COMMERCIAL LOSS FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON YOUR PRODUCT EVEN IF VUZIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some jurisdictions do not allow the exclusion or limitation of special, indirect, incidental or consequential damages, so the above limitation or exclusion may not apply to You, but the remainder of this Limited Warranty shall remain in full force and effect.

Duration of Implied Warranties

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS HARDWARE PRODUCT IS LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD STATE ABOVE FOR YOUR PRODUCT. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to You. Please note that in the European Union, any warranty period less than two years shall be increased to two years except in the case of use for commercial purposes.

Using Your Video Eyewear

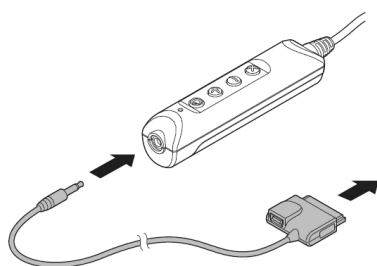
Before using your video eyewear for the first time, remove the clear protection film from the inside surface of the viewer lens.

The iWear AV230 XL video eyewear can be connected to any video device with compatible connectors. It comes with an iPod® and composite audio/video cable. The iWear AV230 XL will automatically work with PAL and NTSC video systems.

Your AV230 XL comes ready to use with a battery already installed.

Plug-in & Power On

- 1 Connect your AV230 XL to your audio/video device using the appropriate cable. (see *audio/video device instructions*)



Composite AV Cable
Made for iPod®



iPod with video



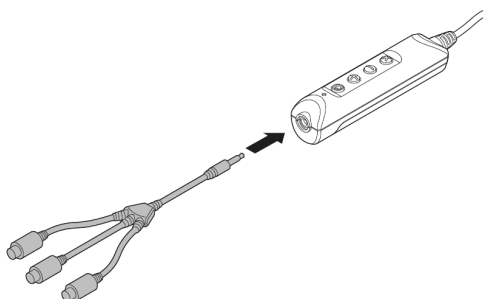
iPod Touch
and iPhone



iPod Classic



iPod Nano 3rd
generation
(video)



Composite Audio/Video Cable
(also known as RCA)

Compatible with the composite video jacks found on many kinds of A/V components, including DVD players, VCRs, A/V receivers, DVRs, and portable video players.

Additional cables, for a variety of devices, are available from the Vuzix website (www.vuzix.com).

Note: The iWear AV230 XL automatically turns off after 30 second of no video input.

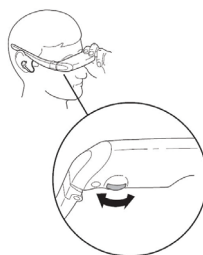
2 Turn on your audio/video device and configure it for an external display.

3 Press the power button to turn on your AV230 XL.



4 If required, adjust the AV230 XL focus.

Your AV230 XL has independent left and right eye focus adjusters under the front left and right corners.



Getting the Most from Your Video Eyewear

Control Buttons

A series of four buttons on the battery pack allow you to adjust various aspects of your AV230 XL.



The top button, nearest the connector, is the **Power/OSD** button. It allows you to turn your Vuzix AV230 XL on and off and access the On Screen Display (OSD) menu.

- Press once to turn on AV230 XL
- Press again to access the OSD menu
- Press and hold to turn off AV230 XL



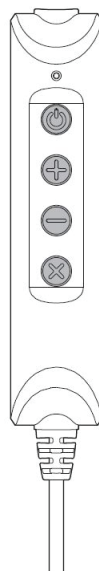
The plus sign identifies the **Increase** button, used to increase selected setting such as volume, brightness, etc.

- Increase volume, when OSD is not displayed.
- Increases current OSD selection, when OSD is displayed



The minus sign identifies the **Decrease** button, used to decrease selected setting such as volume, brightness, etc.

- Decrease volume, when OSD is not displayed.
- Decreases current OSD selection, when OSD is displayed





The “X” identifies the *Exit* button, used to cancel the current OSD menu selection.

- Closes the OSD

Volume



When the OSD is not displayed, pressing either the Increase or Decrease buttons adjusts the volume of the AV230 XL earphones.

On Screen Display (OSD) Menu

With the AV230 XL turned on, press the Power/OSD button to access the OSD for adjusting display settings. Repeated presses of the Power/OSD button cycles through its options, finally exiting the OSD.



Display Brightness adjusts the brightness of the video display



screens. To conserve battery life, use a lower brightness setting.

Video Brightness adjusts the vividness or brightness of the video image.



Contrast adjusts the separation between dark and light.



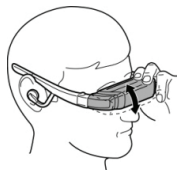
Saturation adjusts the intensity of colors.

After cycling through the above OSD menu options press the Power/OSD button again to turn off or exit the OSD.

AccuTilt® Viewer Adjustment

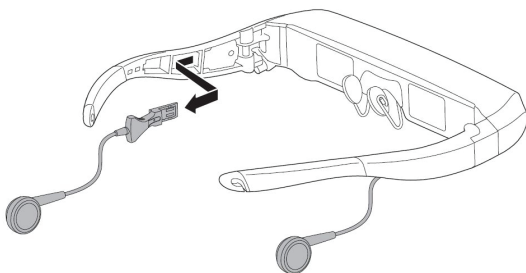
AccuTilt viewer adjustment is a Vuzix technology that allows you to adjust the angle of the display housing 15 degrees to ensure optimum alignment.

To adjust the viewing angle, grasp the viewer and tilt it up or down.



Speaker Adjustment & Removal

Your video eyewear's stereo earphones are tethered on flexible cables and can be removed should you wish to use an alternate speaker system.



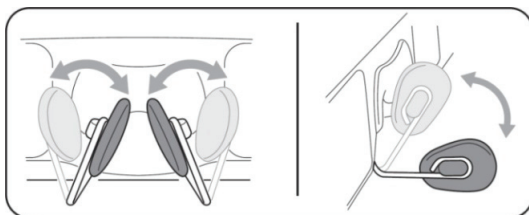
To remove a speaker:

- Grasp the hard plastic finger grip adjacent to the temple.
- Pull straight back on the finger grip. **DO NOT pull on the cable.**

Reverse the process to re-insert the speakers.

Nose Bridge Adjust

Your video eyewear is equipped with an adjustable nose bridge that provides a broad range of adjustment.

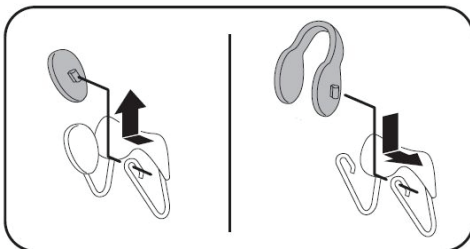


To adjust the nose bridge, grasp a nose bridge pad between your thumb and forefinger and bend the arm to an appropriate position. Repeat with the other nose pad and then make minor adjustments until a comfortable position has been achieved.

Please note the nose bridge adjustment is designed for occasional adjustment of a single user. It is not designed for repeated bending or extreme bend angles. These actions may weaken the bridge support wires resulting in damage.

Prescription eyeglass wearers can adjust the nose bridge to wear their video over and in front of their glasses.

A second style of nose bridge pad is provided with your Vuzix AV230 XL. Use whichever you find most comfortable. Gently pull the prong on the rear of the pad out from the wire frame to remove a pad and the prong back in to replace a pad. A

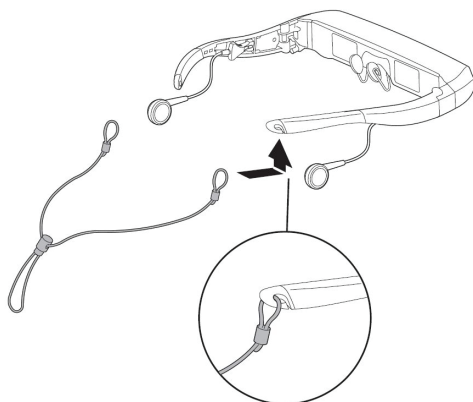


small amount of moisture may ease the friction of removing and inserting these prongs.

Head Strap

A head strap is provided to assist in securing your AV230 XL over eyeglasses, when resting your head on a pillow or when performing activities that might cause it to shift positions.

Secure the head strap to the hooks on the end of the stems and pull the slider where the tether leads join to provide a comfortable yet secure fit.

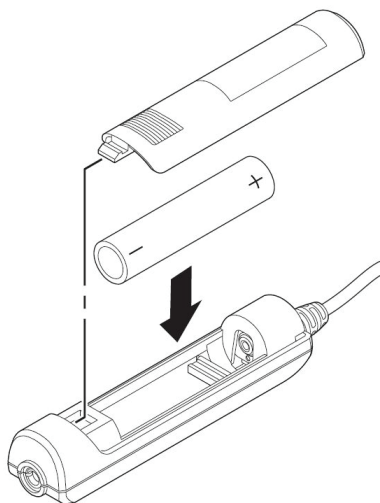


Battery Replacement

Your AV230 XL is powered by a single AA battery. A high quality alkaline battery, such as the one pre-installed, will provide power for up to 7 hours of use. A 2100mAh NiMH battery will provide power for up to 8 hours and a lithium e2 battery up to 17 hours of use.

To remove or replace the battery:

- Press down on the grip area near the top of the battery compartment cover.
- Slide the cover back and remove.
- Insert a new battery as shown.
- Slide the battery compartment cover back in place.



Composite AV Cable for iPod

The included composite AV cable for iPod contains a mini-USB port that enables your iPod to be powered externally while connected to your iWear AV230 XL and to sync your iPod with your computer.



Cleaning

Use a soft dry cloth to clean your AV230 XL enclosure and optics. The provided cloth carry pouch works well for cleaning. Do not use liquid or spray-on cleaners or paper tissues for cleaning your video eyewear.

Troubleshooting

The video eyewear will not turn on.

- Remove and reinsert the battery, ensuring it is properly seated.
- Replace the battery with one fresh from a sealed package.

The product turns off immediately after I turn it on.

- Replace the battery.

There is no audio in one or more earphones.

- Ensure the earphones are fully plugged in.
Unplug the earphones and plug them back into the viewer's temples to ensure a good contact.

Should I remove the battery from the AV230 XL if it will be sitting unused for an extended period of time?

- Yes.

Why am I not achieving the rated battery life?

- The power profile of batteries varies by type. Name brand alkaline or lithium batteries are recommended for this device.
- Excessive time may have elapsed between when your battery was manufactured and when it was put into service, resulting in a partially reduced charge. Battery storage conditions will also affect a batteries charge.
- That time may vary based upon display settings. Excessive brightness will consume additional power and shorten battery life.

Will the Vuzix AV230 XL work with an iPhone?

- Yes. When you connect the Vuzix AV230 XL, your iPhone will notify you and present you with the option to go into Airplane Mode, which turns off the communication capability of the iPhone while it's connected. This means that you'll avoid potential audio interference, but you'll be unable to make or receive calls. If you choose not to enter Airplane Mode, you can make and receive calls, but you may experience some audio interference.

Where can I find additional troubleshooting information or answers to questions not covered here?

- Additional information and answers to frequently Asked Questions (FAQs) can be found on the Vuzix website at www.vuzix.com.

Contacting VUZIX

In the United States or Canada, refer to the [Vuzix website \(www.vuzix.com\)](http://www.vuzix.com) or call (800) 436-7838, 9 AM to 6 PM ET weekdays, excluding holidays.

Be sure to have the following information available before you call:

- Serial number, model name, and model number of your eyewear.
(See label inside battery compartment.)
- Make and model number of the audio video device being used.
- The name of any video content related to your support needs.
- Detailed explanation of the symptoms you are experiencing or questions you need answered.

Waste Electrical & Electronic Equipment (WEEE)

1. The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.
2. In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end life equipment in a sound way.
3. The crossed-out wheeled bin symbol invites you to use those systems.
4. If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.
5. You can also contact us for more information on the environmental performances of our products.

iPod is a registered trademark of Apple Inc., registered in the U.S. and other countries.

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